Recently, several UNIX emulators that are easily installed and used under the Microsoft® Operating Systems (OS) commonly referred to as “Windows” have become available. This paper describes the authors’ experiences in using these tools both as a teaching mechanism in an undergraduate setting for the purpose of teaching the use of UNIX and various high-level languages such as PERL, FORTRAN, C and C++ and for use in research. In addition to these programming languages, the tools are also useful for teaching more advanced concepts such as UNIX shell scripting; all while existing in the native operating system environment Microsoft® provides which is by far the most predominant installation in PCs found today.